

D HIS

(FILE 'USPAT' ENTERED AT 15:43:42 ON 30 JUN 1997)

L1 132 S 395/607/CCLS
L2 3 S L1 AND INDIRECT
L3 20 S L1 AND VIRTUAL
L4 7 S L3 AND LINK
L5 36 S "RESOURCE LIST"
L6 0 S L1 AND L5
L7 15 S L5 AND SORT?
L8 62 S L1 AND LIST
L9 16 S L8 AND L3
L10 10 S L9 NOT L4
L11 51 S L1 AND POINTER
L12 35 S L11 AND LIST
L13 23 S L12 NOT (L10 OR L4 OR L2)
L14 52 S 395/622/CCLS
L15 40 S L14 AND PROGRAM
L16 30 S L15 AND APPLICATION
L17 24 S L16 AND LIST
L18 18 S L17 AND "FILE"

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8
9

=> D 1-18

1. 5,623,654, Apr. 22, 1997, Fast fragmentation free memory manager using multiple free block size access table for a free **list**; Jim Peterman, **395/622**; 364/222.81, 282.1, 282.2, DIG.1 :IMAGE AVAILABLE:

2. 5,606,689, Feb. 25, 1997, Data processing apparatus including external storage previously reserved to be allocated to job groups; Akio Nakagawa, **395/622**, 376, 439 :IMAGE AVAILABLE:

③ 5,592,669, Jan. 7, 1997, **File** structure for a non-volatile block-erasable semiconductor flash memory; Kurt B. Robinson, et al., **395/622**, 800 :IMAGE AVAILABLE:

4. 5,590,332, Dec. 31, 1996, Garbage collection, tail recursion and first-class continuations in stack-oriented languages; Henry G. Baker, **395/705**, **622** :IMAGE AVAILABLE:

5. 5,530,850, Jun. 25, 1996, Data storage library array with log-structured **file** system which allows simultaneous write and garbage collection; Daniel A. Ford, et al., **395/622**; 364/282.4, 283.1, DIG.1; **395/182.04** :IMAGE AVAILABLE:

6. 5,357,475, Oct. 18, 1994, Method for detaching sectors in a flash EEPROM memory array; Robert N. Hasbun, et al., **395/430**; 364/DIG.1; 365/185.11, 200, 218; 371/10.2, 21.1; **395/497.04**, **622** :IMAGE AVAILABLE:

7. 5,293,614, Mar. 8, 1994, System and method for hard real-time garbage collection requiring a write barrier but no read barrier; Edward E. Ferguson, et al., **395/617**; 364/245, 245.2, 280, 281.1, 282.1, 282.2, DIG.1; **395/497.01**, **622** :IMAGE AVAILABLE:

8. 5,241,673, Aug. 31, 1993, System for garbage collecting unused memory space represented by a digraph by assigning values of node identifiers to selected variables based upon predetermined conditions; Marcellinus A. J.

Schelvis, 395/614; 364/245.4, 281.1, 282, DIG.1; 395/622, 800 :IMAGE AVAILABLE:

9. 5,107,419, Apr. 21, 1992, Method of assigning retention and deletion criteria to electronic documents stored in an interactive information handling system; Margaret G. MacPhail, 395/609; 364/188, 222.81, 222.82, 282.1, 283.3, 286, 286.1, 286.2, DIG.1; 395/610, 622 :IMAGE AVAILABLE:

10. 5,051,891, Sep. 24, 1991, Method to manage transfer of ownership of electronic documents stored in an interactive information handling system; Margaret G. MacPhail, 395/616; 364/225, 225.4, 282.1, 282.2, 282.4, 283.3, 285, 286, 286.1, 286.2, 286.6, DIG.1; 395/622 :IMAGE AVAILABLE:

11. 4,989,134, Jan. 29, 1991, Method and apparatus for enhancing data storage efficiency; Robert A. Shaw, 395/622; 364/243, 243.7, 256.3, 280, 281.1, DIG.1; 395/462 :IMAGE AVAILABLE:

12. 4,989,132, Jan. 29, 1991, Object-oriented, logic, and database programming tool with garbage collection; Fredric H. Mellender, et al., 395/705; 364/274, 274.1, 280, 280.4, 281.1, 282.1, DIG.1; 395/76, 614, 622, 704 :IMAGE AVAILABLE:

13. 4,953,080, Aug. 28, 1990, Object management facility for maintaining data in a computer system; John A. Dysart, et al., 395/614; 364/222.81, 280, 281.3, 281.7, 282.1, 282.3, 283.1, 286, 286.4, 286.5, DIG.1; 395/616, 622 :IMAGE AVAILABLE:

14. 4,914,586, Apr. 3, 1990, Garbage collector for hypermedia systems; Daniel C. Swinehart, et al., 395/612; 364/222.82, 225.6, 238.1, 239.9, 240.8, 240.9, 242.5, 242.94, 242.95, 260.4, 260.81, 260.9, 281.1, 282.1, 282.2, 283.1, 284, 284.4, DIG.1; 379/88, 94, 96; 395/615, 622, 773 :IMAGE AVAILABLE:

15. 4,887,235, Dec. 12, 1989, Symbolic language data processing system; John T. Holloway, et al., 395/421.06; 364/931.5, 967.4, 970.4, 972.1, DIG.2; 395/622 :IMAGE AVAILABLE:

16. 4,853,842, Aug. 1, 1989, Computer memory system having persistent objects; Satish M. Thatte, et al., 395/622; 364/232.1, 246, 246.3, 247, 247.2, 254, 254.3, 254.9, 255.1, 255.2, 256.3, 256.5, 256.6, 274, 274.1, 274.2, 274.3, 280, 280.4, 281.1, 282.1, DIG.1 :IMAGE AVAILABLE:

17. 4,775,932, Oct. 4, 1988, Computer memory system with parallel garbage collection independent from an associated user processor; Donald W. Oxley, et al., 395/622; 364/DIG.1 :IMAGE AVAILABLE:

18. 4,121,286, Oct. 17, 1978, Data processing memory space allocation and deallocation arrangements; Peter Charles Venton, et al., 395/622; 364/222.2, 222.3, 228.1, 228.3, 230, 230.4, 231.4, 231.6, 232.7, 238, 238.3, 238.4, 240.1, 241.2, 242.2, 243, 243.2, 244, 244.3, 244.6, 245.5, 245.8, 246, 246.1, 246.2, 246.3, 246.6, 246.7, 246.8, 254, 254.3, 254.4, 254.5, 254.6, 255.1, 255.5, 255.7, 258, 259, 259.2, 259.4, 259.7, 261.3, 261.6, 262.4, 262.8, 263, 264, 264.6, 265, 267, 267.7, 270.5, 270.6, 919, 919.4, 929.2, 931, 933, 933.3, 933.5, 933.6, 933.7, 935, 935.2, 935.4, 937.1, 943.9, 946.2, 946.6, 946.9, 947, 947.2, 947.5, 949.3, 952, 952.1, 955, 955.1, 955.2, 955.5, 957, 957.6, 962, 962.1, 964, 964.2, 965, 965.4, 966.1, 966.7, 967, 967.1, 969, 969.2, DIG.1, DIG.2 :IMAGE AVAILABLE:

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L10 10 S L9 NOT L4
L11 51 S L1 AND POINTER
L12 35 S L11 AND LIST
L13 23 S L12 NOT (L10 OR L4 OR L2)

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=> D 1-23

1. 5,615,366, Mar. 25, 1997, System and methods for improved sorting; Kurt Hansen, **395/607**; 364/222.9, DIG.1; 395/758 :IMAGE AVAILABLE:
2. 5,604,901, Feb. 18, 1997, Interrogation index file comparison; Edward E. Kelley, et al., 395/603, **607** :IMAGE AVAILABLE:
3. 5,577,243, Nov. 19, 1996, Reallocation of returned memory blocks sorted in predetermined sizes and addressed by **pointer** addresses in a free memory **list**; Gregory J. Sherwood, et al., **395/607**; 364/246.7, 281.1, DIG.1; 395/417, 419, 497.02 :IMAGE AVAILABLE:
4. 5,551,018, Aug. 27, 1996, Method of storing national language support text by presorting followed by insertion sorting; Kurt Hansen, **395/607**; 364/222.9, DIG.1 :IMAGE AVAILABLE:
5. 5,530,849, Jun. 25, 1996, Method of reading dynamic, hierarchical file system directories; Andrew Hanushevsky, et al., 395/601; 364/222.81, 282.3, DIG.1; **395/607** :IMAGE AVAILABLE:
6. 5,519,861, May 21, 1996, Sampled data storage and editing system for the time series data being displayed according to collection location; Tadimitsu Ryu, et al., 395/601; 364/920, 927.2, 934, DIG.2; 395/200.02, **607**, 610, 845 :IMAGE AVAILABLE:
7. 5,487,164, Jan. 23, 1996, Distribution-based replacement selection sorting system; Richard Kirchhofer, et al., **395/607**; 364/222.9, 282.1, 283.2, DIG.1 :IMAGE AVAILABLE:
8. 5,479,657, Dec. 26, 1995, System and method for sorting count information by summing frequencies of usage and using the sums to determine write addresses; Masahiko Toyonaga, et al., **395/607**; 364/222.9, 962.3, 963.2, DIG.1, DIG.2; 395/800 :IMAGE AVAILABLE:
9. 5,440,734, Aug. 8, 1995, System for MSD radix sort bin storage management; Bruce A. Wagar, **395/607**; 364/222.9, DIG.1 :IMAGE AVAILABLE:
10. 5,421,007, May 30, 1995, Key space analysis method for improved record sorting and file merging; Andrew Coleman, et al., **395/607**;



364/222.9, DIG.1 :IMAGE AVAILABLE:

11. 5,359,729, Oct. 25, 1994, Method for searching for a given point in regions defined by attribute ranges, then sorted by lower and upper range values and dimension; David F. Yarnell, et al., 395/602; 340/146.2; 364/222.9, 223, 224.3, 246.3, 282.1, DIG.1; 395/11, 607, 764, 765 :IMAGE AVAILABLE:

12. 5,355,478, Oct. 11, 1994, Method for avoiding cache misses during external tournament tree replacement sorting procedures; James T. Brady, et al., 395/607; 364/222.81, 222.9, 243, 243.4, 243.41, 246, DIG.1; 395/453, 464 :IMAGE AVAILABLE:

13. 5,287,494, Feb. 15, 1994, Sorting/merging tree for determining a next tournament champion in each cycle by simultaneously comparing records in a path of the previous tournament champion; Leslie C. Garcia, et al., 395/607; 340/825.02; 364/229.41, 282.1, 974, DIG.1, DIG.2 :IMAGE AVAILABLE:

(14). 5,274,805, Dec. 28, 1993, Method of sorting and compressing data; David E. Ferguson, et al., 395/607; 364/715.02, 939.4, 951.3, 962.3, DIG.2 :IMAGE AVAILABLE:

15. 5,241,648, Aug. 31, 1993, Hybrid technique for joining tables; Josephine M. Cheng, et al., 395/607; 364/222.9, 282.1, 283.4, DIG.1; 395/611 :IMAGE AVAILABLE:

16. 5,210,870, May 11, 1993, Database sort and merge apparatus with multiple memory arrays having alternating access; Richard I. Baum, et al., 395/607; 340/146.2; 364/222.81, 222.82, 222.9, 243, 259, 259.2, 282.1, 283.4, DIG.1 :IMAGE AVAILABLE:

17. 5,187,750, Feb. 16, 1993, Archival document image processing and printing system; Bailochan Behera, 382/140, 305; 395/607, 615, 620 :IMAGE AVAILABLE:

18. 5,121,493, Jun. 9, 1992, Data sorting method; David E. Ferguson, 395/607; 364/222.81, 222.82, 222.9, 236.2, 239, 239.1, 239.6, 239.7, 239.8, 244, 244.3, 248.1, 254, 254.5, 259, 259.2, 261.3, 261.9, DIG.1 :IMAGE AVAILABLE:

19. 5,019,975, May 28, 1991, Method for constructing a data base in a medical image control system; Hachiro Mukai, 395/607 :IMAGE AVAILABLE:

20. 4,809,158, Feb. 28, 1989, Sorting method and apparatus; Peter B. McCauley, 395/607; 364/222.81, 222.9, 245, 245.1, 251, 251.5, 254, 254.6, 255.1, 255.5, 259, 259.2, 262, 262.3, DIG.1 :IMAGE AVAILABLE:

(21). 4,760,526, Jul. 26, 1988, Method for storing data into a file device and for data retrieval; Haruo Takeda, et al., 395/607; 364/222.82, 222.9, 283.1, 963, DIG.1; 369/32, 47 :IMAGE AVAILABLE:

(22). 4,575,798, Mar. 11, 1986, External sorting using key value distribution and range formation; Eugene E. Lindstrom, et al., 395/607; 364/222.81, 222.9, 228.3, 238.6, 238.9, 243, 246, 246.3, 248.5, 253, 282.1, 282.3, 283.1, 283.2, DIG.1 :IMAGE AVAILABLE:

23. 4,210,961, Jul. 1, 1980, Sorting system; Duane L. Whitlow, et al., 395/607; 364/222.9, 271.9, 962.2, 962.3, DIG.1, DIG.2; 395/872 :IMAGE AVAILABLE:

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=> D 1-10

1. 5,640,561, Jun. 17, 1997, Computerized method and system for replicating a database using log records; Shinji Satoh, et al., 395/618, 182.13, 182.14, **607** :IMAGE AVAILABLE:

~~2.~~ 5,487,166, Jan. 23, 1996, Computer with two-dimensional merge tournament sort using offset-value coding; David Cossock, **395/607**; 364/222.81, 222.9, DIG.1 :IMAGE AVAILABLE:

3. 5,485,373, Jan. 16, 1996, Language-sensitive text searching system with modified Boyer-Moore process; Mark E. Davis, et al., 395/798; 364/225.3, 282.1, 962.3, 974, DIG.1, DIG.2; **395/607**, 793 :IMAGE AVAILABLE:

4. 5,442,778, Aug. 15, 1995, Scatter-gather: a cluster-based method and apparatus for browsing large document collections; Jan. O. Pedersen, et al., 395/605; 364/225.6, DIG.1; **395/607** :IMAGE AVAILABLE:

5. 5,414,842, May 9, 1995, External sorting using **virtual** storage as a work device; Gary D. Archer, et al., **395/607**; 364/243.4, 256.3, 961.2, 964.2, DIG.1, DIG.2 :IMAGE AVAILABLE:

6. 4,962,451, Oct. 9, 1990, Cache-effective sort string generation method; Douglas R. Case, et al., **395/607**; 364/962, 962.2, 962.3, 964, 964.2, 966.1, 966.2, 966.6, DIG.2; 395/460 :IMAGE AVAILABLE:

7. 4,510,567, Apr. 9, 1985, Qualifying and sorting file record data; Philip Y. Chang, et al., **395/607**; 364/222.9, 248.1, 962.3, DIG.1 :IMAGE AVAILABLE:

8. 4,428,065, Jan. 24, 1984, Data processing system with multiple display apparatus; William S. Duvall, et al., **395/607**; 345/130, 142, 192; 364/926.9, 926.92, 926.93, 927.2, 927.61, 927.63, 927.631, 927.632, 927.67, 928, 930, 940, 940.1, 940.2, 943, 943.1, 943.43, 943.44, 948.3, 952, 952.1, 975.2, 977, DIG.2; 434/157 :IMAGE AVAILABLE:

9. 4,417,321, Nov. 22, 1983, Qualifying and sorting file record data; Philip Y. Chang, et al., **395/607**; 364/923.5, 923.81, 925.6, 926.1, 926.3, 926.4, 926.9, 926.93, 927.2, 927.4, 927.63, 927.632, 927.66, 927.7, 928, 928.1, 928.2, 930, 930.7, 933, 933.6, 933.7, 943, 943.1, 943.44, 947, 947.2, 947.5, 948.2, 948.22, 950, 950.3, 952, 952.1, 958, 958.3, 962, 962.1, 962.3, 964.9, DIG.2 :IMAGE AVAILABLE:

10. 4,086,628, Apr. 25, 1978, Directory generation system having
efficiency increase with sorted input; Luther Jay Woodman, **395/607**;
364/222.81, 222.82, 239, 243, 245, 245.1, 245.2, 246, 246.3, 246.6,
246.9, 251, 251.6, 252.3, 252.4, 254, 254.3, 255.1, 255.7, 256.3, 256.4,
259, 259.1, DIG.1; 395/613 :IMAGE AVAILABLE:

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L6	0 S L1 AND L5

47 15 L5 and Sort

D 1-15

1. 5,634,124, May 27, 1997, Data integration by object management; Dana Khoyi, et al., 395/614, 615, 683 :IMAGE AVAILABLE:
2. 5,574,843, Nov. 12, 1996, Methods and apparatus providing for a presentation system for multimedia applications; John D. Gerlach, Jr., 395/118, 348, 521 :IMAGE AVAILABLE:
3. 5,421,015, May 30, 1995, Multitasking system having an application integration mechanism for linking differently typed data objects; Dana Khoyi, et al., 395/677; 364/DIG.1; 395/683, 685 :IMAGE AVAILABLE:
4. 5,421,012, May 30, 1995, Multitasking computer system for integrating the operation of different application programs which manipulate data objects of different types; Dana Khoyi, et al., 395/677; 364/DIG.1; 395/326, 800 :IMAGE AVAILABLE:
5. 5,369,778, Nov. 29, 1994, Data processor that customizes program behavior by using a resource retrieval capability; Marc San Soucie, et al., 395/800; 364/942.3, 942.51, DIG.2; 395/500, 614 :IMAGE AVAILABLE:
6. 5,317,732, May 31, 1994, System for relocating a multimedia presentation on a different platform by extracting a resource map in order to remap and relocate resources; John D. Gerlach, Jr., et al., 395/615; 364/222.81, 226.6, 260.4, 281.1, 282.1, DIG.1; 395/328, 348, 356, 616, 621 :IMAGE AVAILABLE:
7. 5,303,379, Apr. 12, 1994, Link mechanism for linking data between objects and for performing operations on the linked data in an object based system; Dana Khoyi, et al., 395/710; 364/280, 284.3, DIG.1; 395/670, 683 :IMAGE AVAILABLE:
8. 5,261,080, Nov. 9, 1993, Matchmaker for assisting and executing the providing and conversion of data between objects in a data processing system storing data in typed objects having different data formats; Dana Khoyi, et al., 395/500; 364/260, 260.2, 260.3, DIG.1 :IMAGE AVAILABLE:
9. 5,226,161, Jul. 6, 1993, Integration of data between typed data structures by mutual direct invocation between data managers corresponding to data types; Dana Khoyi, et al., 395/683; 364/280, 281.3, 284.3, DIG.1; 395/800 :IMAGE AVAILABLE:
10. 5,206,951, Apr. 27, 1993, Integration of data between typed objects by mutual, direct invocation between object managers corresponding to object types; Dana Khoyi, et al., 395/683; 364/222.2, 225.8, 226.4, 228.1, 234, 236.2, 237.2, 237.3, 239, 239.3, 239.9, 248.1, 254, 254.6, 255.1, 255.8, 261, 261.3, 261.9, 280, 281.3, 281.7, 282.1, 286, 286.1, 286.2, DIG.1; 395/200.03, 800 :IMAGE AVAILABLE:
11. 5,155,836, Oct. 13, 1992, Block diagram system and method for controlling electronic instruments with simulated graphic display; Dale A. Jordan, et al., 395/500; 364/232.3, 488 :IMAGE AVAILABLE:
12. 4,881,230, Nov. 14, 1989, Expert system for processing errors in a multiplex communications system; Mark E. Clark, et al., 371/20.1; 364/238, 240, 240.2, 240.7, 242.94, 264, 264.5, 264.7, 265, 266.5, 266.6, 267, 267.7, 268, 268.3, 268.4, 268.5, 268.7, 268.8, 270, 271, 271.2, 274, 274.1, 274.2, 274.8, 275.1, 275.7, 276, 276.5, 276.8, 284, DIG.1;

370/242; 395/182.02, 917 :IMAGE AVAILABLE:

13. 4,873,687, Oct. 18, 1989, Failing resource manager in a multiplex communication system; Wendy W. Breu, 395/182.02; 364/DIG.1; 370/216; 371/20.1; 395/909 :IMAGE AVAILABLE:

14. 4,868,785, Sep. 19, 1989, Block diagram editor system and method for controlling electronic instruments; Dale A. Jordan, et al., 395/140; 364/917.1, 921.8, 926.9, 927.1, 927.2, 927.3, 927.4, 927.63, 927.81, 927.92, 928, 929.12, 933.8, 933.9, 940, 942.79, 943, 943.5, 949, 949.2, 951.1, 951.4, 965, 966.1, 966.4, 972, 976, 977, 977.1, DIG.2 :IMAGE AVAILABLE:

15. 4,817,092, Mar. 28, 1989, Threshold alarms for processing errors in a multiplex communications system; Luan J. Denny, 395/182.08; 379/2;
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=> D 1-7

1. 5,469,576, Nov. 21, 1995, Front end for file access controller;
Norman J. Dauerer, et al., 395/186; 364/968, 969, 969.4, DIG.2; 395/442,
490, **607**, 609 :IMAGE AVAILABLE:

2. 5,455,945, Oct. 3, 1995, System and method for dynamically displaying
entering, and updating data from a database; Richard VanderDrift,
395/602; 364/963, 974.1, 974.6, DIG.2; 395/604, **607**, 613 :IMAGE
AVAILABLE:

3. 5,426,779, Jun. 20, 1995, Method and apparatus for locating longest
prior target string matching current string in buffer; Lloyd L. Chambers,
IV, 395/606; 341/55, 106; 364/715.02, 956, 963, 963.1, 963.2, 963.3, 974,
974.6, DIG.2; **395/607** :IMAGE AVAILABLE:

④ 5,278,987, Jan. 11, 1994, **Virtual** pocket sorting; Franklin
Chiang, et al., 395/800; 364/222.81, 222.9, 962.3, 963.3, DIG.1, DIG.2;
395/607 :IMAGE AVAILABLE:

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⑤ 5,193,207, Mar. 9, 1993, **Link** sorted memory; Stanley J. Vander
Vegt, et al., 395/800; 340/146.2; 364/DIG.1; **395/607** :IMAGE
AVAILABLE:

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6. 4,873,625, Oct. 10, 1989, Method and apparatus for extending
collation functions of a sorting program; Gary D. Archer, et al.,
395/607; 364/222.81, 222.82, 222.9, 232.8, 237.9, 238.3, 241.9,
256.8, 261, 262.4, 262.5, 263.3, 280, DIG.1; 395/678 :IMAGE AVAILABLE:

⑦ 4,587,628, May 6, 1986, Method and apparatus for dynamic invocation
of utilities; Gary D. Archer, et al., 395/682; 364/920, 927.92, 927.94,
928, 928.3, 933, 933.2, 940.81, 943.9, 944.7, 957, 957.1, 962, 962.3,
973, 974, 974.3, 974.6, 976, 976.1, 977, 978, DIG.2; 395/185.01, **607**

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=> D 1-3

1. 5,487,166, Jan. 23, 1996, Computer with two-dimensional merge tournament sort using offset-value coding; David Cossock, **395/607**; 364/222.81, 222.9, DIG.1 :IMAGE AVAILABLE:
2. 5,396,622, Mar. 7, 1995, Efficient radix sorting system employing a dynamic branch table; Paul K. Lee, et al., **395/607**; 364/222.9, 962.3, DIG.1, DIG.2; 395/800 :IMAGE AVAILABLE:
3. 3,931,612, Jan. 6, 1976, Sort apparatus and data processing system; William W. Stevens, et al., **395/607**; 340/146.2; 364/917.5, 917.9, 918, 918.1, 918.4, 926.1, 926.3, 933, 933.2, 939, 939.2, 939.5, 947, 947.2, 947.3, 951.5, 952, 952.1, 959.1, 959.3, 961.1, 962, 962.1, 962.3, 963, 963.1, 964, 964.7, DIG.2 :IMAGE AVAILABLE: